RM Series Oil-Flooded Rotary Screw Compressors

15-75 kW

Reliability·Efficiency·Energy-saving

Ingersoll Rand®

The Intelligence You Need To Move Your Business Forward

Ingersoll Rand works to keep you ahead of your competition with advanced compressed air systems that boost productivity, lower operating expenses and extend equipment life. These innovations are designed into every Next Generation RM-Series oil-flooded rotary screw air compressor—industry-leading airend enhancements for superior efficiency, world-class delivered capacity and exceptional reliability. All supported by unique advantages, including expert design and engineering, a comprehensive suite of support programs and life-long Ingersoll Rand-branded consumables.

Next Generation RM-Series compressors. The intelligence you need—to win.

Global Presence, Local Service

Manufacturing Facilities

- Buffalo, NY, US
- Campbellsville, KY, US
- Mocksville, NC, US
- West Chester, PA, US
- Curitiba, Brazil
- Wasquehal, France
- Oberhausen, Germany
- Simmerns, Germany
- Fogliano, Italy
- Milan, Italy
- Vignate, Italy
- Ahmedabad, India
- Shanghai, China
- Wujiang, China

Global Distribution Centers

- Charlotte, NC, US
- Genk, Belgium
- Singapore
- Shanghai, China

Efficient Operation and Powerful Information

We Start At The Core

When we made the Next Generation RM-Series we started with an all-new, state-of-the-art airend, making it your best choice for performance. The new airend improves efficiency as much as 16% through several advancements, including an optimised rotor profile to help minimise operating expenses. The new rotor profile also provides world-class airflow, delivering up to 14% more than previous models. With more airflow for the same power input, your compressor requirements are smaller, reducing both investment costs and energy usage, to lower your total cost of ownership.

Knowledge Is Power

The best compressors deliver air and actionable information. That's why every Next Generation RM-Series compressor includes an intelligent controller that monitors key operations and adjusts system parameters to maximise uptime and minimise energy consumption. It gives you real-time facts to make and execute informed decisions…from virtually anywhere in the world.

Environmental protection, energy saving and efficiency

Every RM-Series compressor features an all-new highly efficient airend, in combination with motor meeting IE3 and ECO*-PM IE5 energy-efficiency standards, helping you save up to 12-30% on energy costs.

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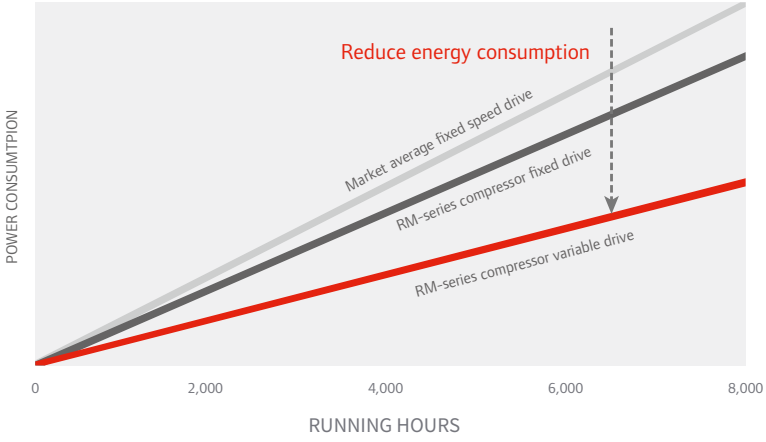
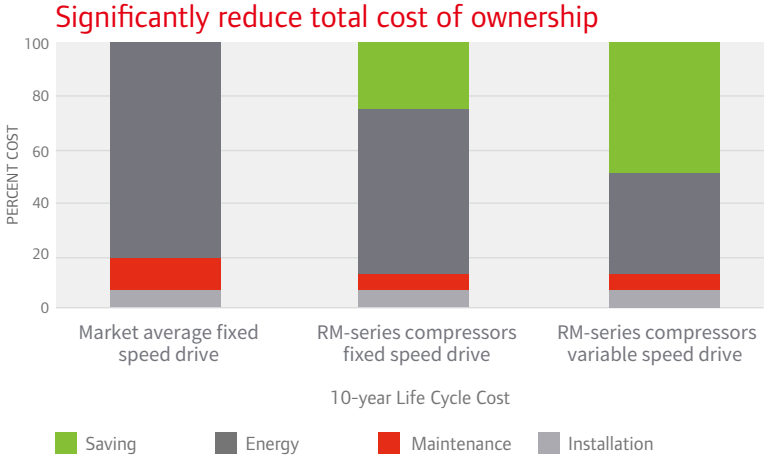




Rotary comparison at 79% average volume capacity; 4000 hours per year; 0.05$/kWh

Luminance Controller

With powerful control and remote management capability, new generation Luminance controller of Ingersoll Rand guarantees steady operation and also greatly improves operating and management efficiency of your unit.

More User-friendly Interface

- High-resolution touch screen: Le-180, 7.0''; Le-120, 4.3''
- More intuitive key parameter & information display

Easier Upgrade

- Modular design for easier iterative upgrade of software functions and continuous improvement of user experience

More Advanced Algorithm

- Advanced controller algorithm for smaller pressure fluctuation and lower energy consumption
- Sequencer for up to 4 compressors with Luminance and no other system controllers

Steadier Performance

- Fully isolated design with stronger anti-interference capability and better electromagnetic compatibility
- Used in a variety of operating ambient conditions and operating life of at least 40,000 hours for 5 years

More Efficient Management

- Built-in Internet connection for efficient remote management of operating status and maintenance schedule of the unit
- Automatic alarm & fault reminder and performance report sending

Stronger Core

- Multi-core processor for significant improvement of computing speed and communication capability
- Significantly reduce data collection and operation interface delay for more timely communication

Le Controller Features

Service Contract

PackageCARE: when the agreement becomes effective, all operating risks transfer from you to us to free you from any concerns.

You will enjoy 100% operating risk transfer for any machine model and life.

PlannedCARE: all-round genuine spare parts and maintenance services

You will enjoy preventative diagnosis, current state analysis & trend judgment; 10 years' airend warranty (for new oil-flooded rotary screw air compressor)

PartsCARE: genuine spare parts for daily maintenance

You will enjoy regular shipment of spare parts and daily maintenance reminder, 5 years' airend warranty (for new oil-flooded rotary screw air compressor)

Peace of Mind

Lower TCO

CARE service programs provide the most cost-effective solutions based on your customized maintenance strategy.

Quality Results

Ingersoll Rand factory-trained service technicians are backed by more than 160 years of industry experience.

Increased Uptime

Our CARE programs help decrease unplanned downtime and costly production interruptions.

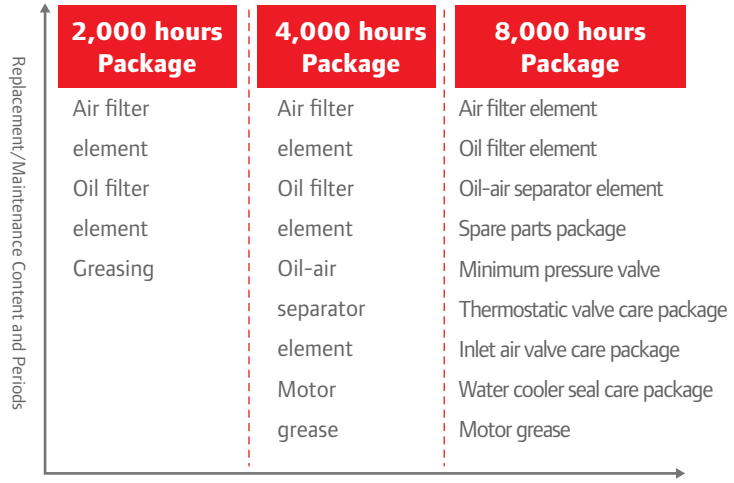
Efficient Energy Use

Peak system efficiency is achieved through properly performed maintenance and inspection.

Peace of Mind

Our world-class services will help you achieve the results you need, while you focus on what's important to your business,

Maintenance Service Package



Reliability: constant air quality guarantee with genuine spare parts
Scheduling: regular maintenance & care as planned to decrease failure probability and increase operating stability
Efficiency: one chart No. replacing a number of spare parts lists to increase procurement & management efficiency
Comprehensiveness: all parts and components required for maintenance or service at a time are included for shorter lead time than individual parts
Economy: visual service cost budget and superiority in price to purchase of individual parts

One-stop service with OEM quality guarantee

Optimized internal structural design

1 Efficient

All-new, state-of-the-art airends improve efficiency as much as 16% and airflow by 34%, and are designed for long life and reliable operation.

2 Reliable*

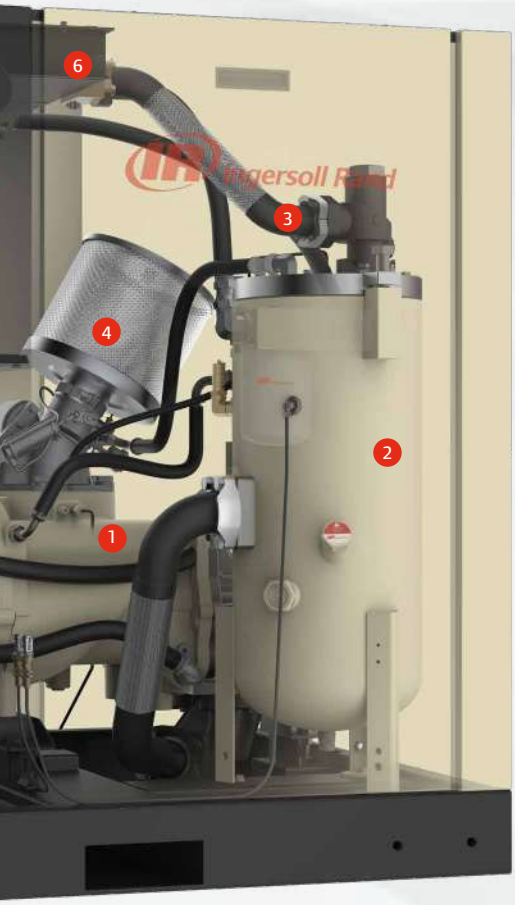
Three-stage separation system with conical baffle removes all but 3 ppm of lubricating oil from delivered air—protecting downstream equipment and extending filter life—to maximise productivity and minimise expenses.

3 Robust*

V-shield™ technology uses plane-sealed O ring that helps deliver repeatable, leak-free connections.

7 Intelligent

Luminance controller enables real-time system parameter monitoring. keeps you informed of compressor status and alarms to exempt you from losses due to unexpected sudden shutdown.



6 Reliable / Efficient / Easy to Maintain

Unwelded oil / after-cooler horizontally arranged in parallel on top of the unit decreases distortion & leakage caused by heat stress, increases reliability, extend service life, reduce maintenance work, and reduce customers' use cost during life cycle of the unit and improve their productivity.

5 Motor

Fixed speed drive: premium IEC60034-30 IE3 motor enables IP55 protection grade and Class F insulation with B rise.

Variable speed drive: highly efficient oil-cooled IE5 & IP66 PM motor enables Class H insulation with B rise.

4 Efficient / Superior In Productivity*

The air intake system with large-allowance inlet air and low pressure drop air filter effectively reduces inlet air pressure and improve efficiency of the unit, and reduces maintenance work and cost to facilitate the production for customers.

* There are slight differences between different product configurations. Please contact Ingersoll Rand's local customer consultants for details.

The Airend —the Heart Of Every Compressor

Air compressor use accounts for a significant part of your energy costs. Designed using advanced computer modeling techniques, our team of skilled engineers have optimized the airend to be with 16% higher efficiency, excellent airflow, lower operating noise, longer service life and higher reliability well known in the industry to operate reliably to improve your company's bottom line.

Designed for long life and reliable operation

1. Strategically positioned lubrication points effi ciently deliver oil exactly where it's needed, improving reliability and lowering power consumption.

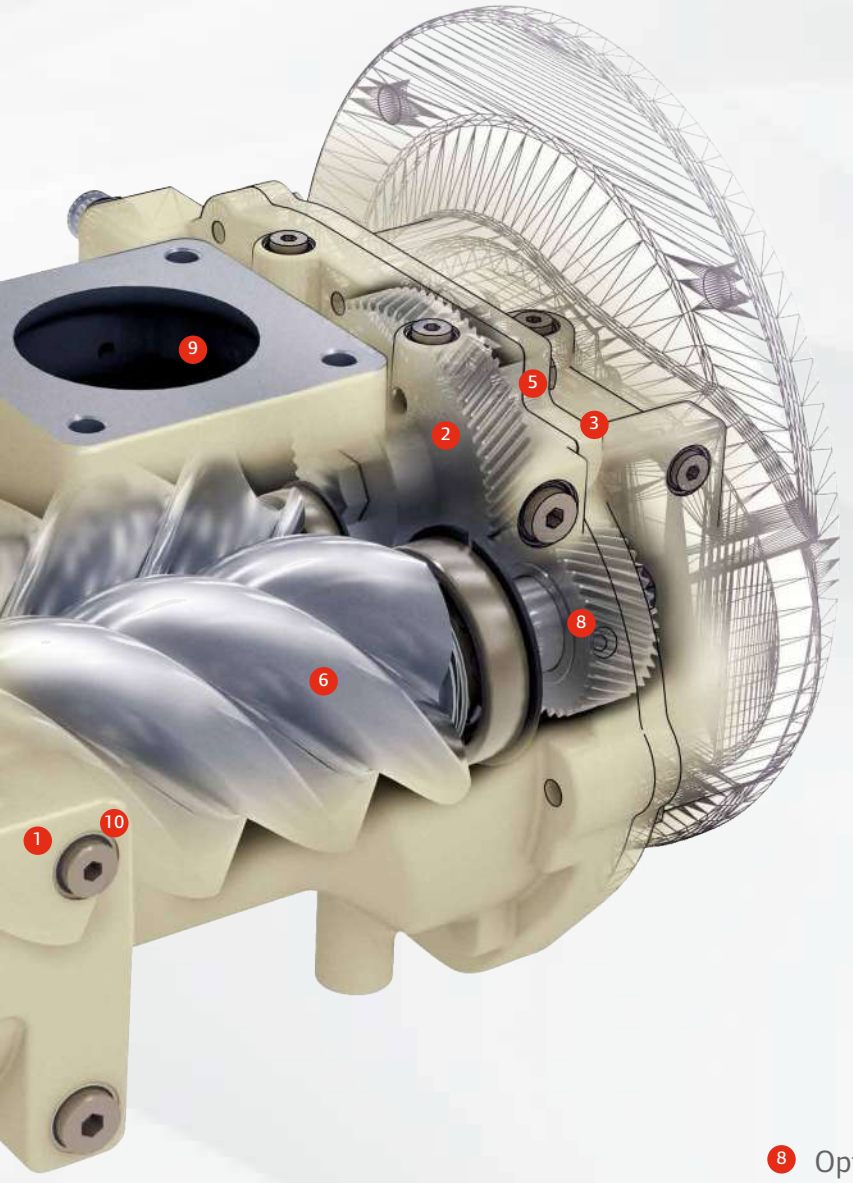
2. Advanced gear transmits drive power more efficiently and reliably.

Integral Gearbox

3. Integral gearbox reduces windage losses and drivetrain length for more efficient performance and easier serviceability.

4. Enhanced bearing arrangement reduces resistance and improves power management for maximum reliability and performance.

5. Maintenance-free, sealed drive system requires no regular service and protects against damaging dirt and moisture.



World-class energy efficiency

Advanced Rotor Profile

6 Optimised rotor profile helps deliver up to 16% increased efficiency and 34% more airflow, reducing energy cost.

7 Lower friction bearing arrangements improve energy efficiency.

8 Optimised gear lubrication increases reliability and reduces power consumption through strategically injecting oil into gear mesh.

9 Streamlined inlet and outlet flow passage reduces pressure drops.

10 Optimised oil-injection process lowers temperature and increases efficiency during compression.

15-75kW 50Hz Performance

Model	Nominal Power kW-50Hz	Max. Pressure barg-50Hz	Capacity (FAD)* m^3/min-50Hz	Dimensions(L x W x H) mm-50Hz	Weight kg-50Hz
i/ie Standard Performance					
RM15ie_A RM15ie_A TAS	15	7.5	2.9	1400 x 826 x 1275 1850 x 826 x 1275	549 628
		8.5	2.7		
		10	2.4		
		14	1.7		
RM18ie_A RM18ie_A TAS	18	7.5	3.5		604 683
		8.5	3.3		
		10	2.95		
		14	2.2		
RM22ie_A RM22ie_A TAS	22	7.5	4.1		619 698
		8.5	3.9		
		10	3.5		
		14	2.7		
RM30ie_A RM30ie_A TAS	30	7.5	5.6	1544 x 884 x 1376 2200 x 884 x 1376	795 1008
		8.5	5.3		
		10	4.6		
		14	3.6		
RM37ie_A RM37ie_A TAS	37	7.5	7.0		860 1073
		8.5	6.5		
		10	5.65		
		14	4.6		
RM45ie_A RM45ie_A TAS	45	7.5	8.4	1544 x 884 x 1376 2558 x 884 x 1424	930 1143
		8.5	7.9		
		10	7.0		
		14	5.7		
RM55i_A RM55i_W	55	7.5	10.3	1832 x 1249 x 1512	1233 1350
		8.5	9.8		
		10	8.4		
		12.5	7.5		
RM75i_A RM75i_W	75	7.5	12.8		1302 1419
		8.5	12.4		
		10	11.3		
		12.5	10.2		
RM75ie_A RM75ie_W	75	7.5	14		1623 1740
		8.5	13.5		
		10	12.5		
		12.5	10.5		

Model	Nominal Power kW-50Hz	Max. Pressure barg-50Hz	Capacity (FAD)* m^3/min-50Hz	Dimensions(L x W x H) mm-50Hz	Weight kg-50Hz
n/ne Standard Performance					
RM15ne_A RM15ne_A TAS	15	10	1.3-3.0	1100 x 826 x 1275 1850 x 826 x 1275	366 487
		14	1.3-2.0		
RM18ne_A RM18ne_A TAS	18	10	1.3-3.7		366 487
		14	1.3-2.6		
RM22ne_A RM22ne_A TAS	22	10	1.3-4.4		376 497
		14	1.3-3.1		
RM30n_A RM30n_A TAS	30	10	1.2-5.6	1544 x 884 x 1376 2200 x 884 x 1376	651 863
RM37n_A RM37n_A TAS	37	10	2.1-7.0		682 / 894 694 / 906
		14	1.9-5.1		
RM45n_A RM45n_A TAS	45	10	2.1-8.5	1544 x 884 x 1376 2558 x 884 x 1424	692 / 905 694 / 907
		14	1.9-6.0		
RM55n_A	55	10	2.9-10.2	1832 x 1249 x 1512	978
		14	1.8-7.6		
RM75n_A	75	10	2.3-12.6		1018
RM75ne_A	75	10	4.1-15.4		1291 1328
		14	4.5-10.8		

1. Displacement (FAD*)(volume flow) is the operating parameter of the complete, measured according to the test standard of ISO1217:2009 Appendix C.

15-75kW 60Hz Performance

Model	Nominal Power hp-60Hz	Max. Pressure psig-60Hz	Capacity (FAD*) cfm-60Hz	Dimensions(L x W x H) in-60Hz	Weight** lb-60Hz
i/ie Standard Performance					
RM15ie_A RM15ie_A TAS	20	110	104	55.1 x 32.5 x 50.2 72.8 x 32.5 x 50.2	1252 1426
		125	97		
		145	85		
		200	60		
RM18ie_A RM18ie_A TAS	25	110	124		1365 1539
		125	117		
		145	104		
		200	81		
RM22ie_A RM22ie_A TAS	30	110	145		1398 1572
		125	138		
		145	120		
		200	99		
RM30ie_A RM30ie_A TAS	40	110	196	60.8 x 34.8 x 54.2 86.6 x 34.8 x 54.2	1753 2222
		125	188		
		145	167		
		200	132		
RM37ie_A RM37ie_A TAS	50	110	248		1896 2366
		125	227		
		145	199		
		200	167		
RM45ie_A	60	110	294	60.8 x 34.8 x 54.2	2050
		125	277		
		145	248		
		200	202		
RM55i_A	75	110	342	72.1 x 49.2 x 59.5	2718
		125	340		
		145	301		
		180	267		
RM75ie_A	100	110	508		3578
		125	490		
		145	455		
		180	381		

Model	Nominal Power hp-60Hz	Max. Pressure psig-60Hz	Capacity (FAD*) cfm-60Hz	Dimensions(L x W x H) in-60Hz	Weight** lb-60Hz
n/ne Standard Performance					
RM15ne_A RM15ne_A TAS	20	145	47-106	43.3 x 32.5 x 50.2 72.8 x 32.5 x 50.2	829 1096
		200	45-71		
RM18ne_A RM18ne_A TAS	25	145	47-131		851 1118
		200	45-92		
RM22ne_A RM22ne_A TAS	30	145	47-155		851 1118
		200	45-109		
RM30n_A RM30n_A TAS	40	145	42-198	60.8 x 34.8 x 54.2 86.6 x 34.8 x 54.2	1435 1903
RM37n_A RM37n_A TAS	50	145	69-240		1504 /1971 1530 /1997
		200	68-178		
RM45n_A	60	145	70-295	60.8 x 34.8 x 54.2	1526 1530
		200	68-212		
RM55n_A	75	145	106-361	72.1 x 49.2 x 59.5	2155 2156
		200	65-269		
RM75n_A	100	145	80-445		2244
RM75ne_A	100	145	160-542		2846 2928
		200	159-380		

1. Displacement (FAD*)(volume flow) is the operating parameter of the complete, measured according to the test standard of ISO1217:2009 Appendix C;
2. "**"There are slight differences in the weight of 60Hz unit under different power pressure. The maximum weight is stated in the form. Please contact Ingersoll Rand's local customer consultant for the actual weight.

15-75kW Configuration

Standard Configuration Category	Description	Fixed Speed *i/ie*	Variable Speed *n/ne*
Airend	Airend with superior performance	●	●
Controller	Energy-saving controller, with Chinese / English bilingual text display	●	●
	Programmable start-stop operation and remote connection	●	●
	Built-in sequential controller program for at most 4 units*	●	●
	Standard Modbus RTU protocol, RS485 interface	●	●
	Power outage restart option (PORO)*	●	●
Active adaptive protection (PAC™)	Monitor the maintenance of filter element and other wear parts, and adjust system operating parameters accordingly	●	●
	Real-time electronic maintenance indicator & shutdown protection	●	●
Cooling system	High efficient energy-saving fan with low noise	●	●
V-Shield™ technology	Vibration isolating pad & high-class flexible metal conduit	●	●
	Reusable air-tight fluorinated sealing materials	●	●
Supporting system	Noise-reducing housing of the unit	●	●
	Drip-proof base frame (30-75kW)	○	●
	Long-life filter element and separator element	●	●
	Full-load / no-load flow regulation system control	●	\
	Variable frequency PID regulation control	\	●
Main motor & electrical system	Star-delta reduced voltage starter	●	\
	Variable frequency reduced voltage start	\	●
	High-efficiency IP55, TEFC closed motor with Class B temperature rise & Class F insulation	●	\
	Permanent magnet variable frequency TEFC, IP66 motor – Class B temperature rise, Class H insulation	\	●
General configurations	Simple single inlet-outlet line (single inlet and single outlet)	●	●
	12 months' warranty program	●	●
Protection under harsh ambient conditions	High temperature options*	○	\
	High dust inlet air filter	○	○
	272/500/750 L skid-mounted air storage reservoir (15-22kW)	○	○
Environmental protection options	Food grade coolant Ultra FG	○	○
Water-cooled options	Water-cooled unit (55-75kW)	●	○

● Standard

○ Optional

\ Not applicable

* There are slight differences between different product configurations. Please contact Ingersoll Rand's local customer consultants for details.

Air Treatment

Moisture and contamination in compressed air cause significant problems in equipment operation, such as rust, scale and clogged orifices that result in product damage or costly shutdowns. Making our air treatment equipment an integral component of your compressed air system will improve productivity, system efficiency and product or process quality.

Refrigerated Dryers

Our cost-effective refrigerated dryers provide clean, dry air for most industrial applications. Choose efficient cycling dryers to maximize energy savings or non-cycling dryers for a lower initial cost

Refrigerated Dryer Features

- Dew points as low as 3°C (38°F), meeting ISO Class 4 requirements
- Corrosion-free heat exchanger design for reliable operation
- Intuitive microprocessor control for easy operation
- Compact design for easy serviceability

Cost-Effective Operation

Choose refrigerated dryers for lower capital, operating and maintenance costs for many industrial applications.

Better Performance

Dehumidification dryer can be used at low dew point and for higher air quality in your applications.

Desiccant Dryers

Choose desiccant dryers when very low dew points are necessary for high-quality air and to prevent potential freeze-up. Depending on whether you require lower initial capital costs, or lower energy use, choose from heatless, externally heated or heated blower desiccant models.

Desiccant Dryer Features

- Deliver reliable -40℃ pressure dew point in most operating conditions
- High-strength desiccant and durable valves
- Low pressure drop design saves energy
- Advanced microprocessor control is easy to use and maximizes uptime

Ingersoll Rand

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our portfolio of products consists of air compressors, pumps, blowers, and systems for fluid management, loading and material handling as well as power tools. With over 16,000 employees globally, our team develops customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit www.IRCO.com.

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